Reply to Office Action of 10/16/2006 Appl. No.: 09/976,004 Amendment Dated: January 16, 2007 Attorney Docket No.: CSCO-010/4390

## **Listing of Claims**

Claims (1-23): Canceled

1	Claim 24 (Currently Amended): A device for setting up a plurality of virtual circuits
2	between a first end system and a second end system, said plurality of virtual circuits being
3	set up on a network connecting said first end system to said second end system, wherein said
4	first end system is a first ATM switch, said second end system is a second ATM switch, and
5	said network is an ATM network, said device comprising:
6	an outbound interface coupled to said ATM network;
7	a message construction block coupled to said outbound interface; and
8	a call control logic for causing said message construction block to construct a first
9	signaling message requesting said plurality of virtual circuits to be set up, and to send said
10	first signaling message on said network to said second end system;
11	wherein said first signaling message is a single signaling message, wherein said single
12	signaling message comprises a plurality of information elements, wherein a first information
13	element is designed to request set up of a single virtual circuit comprised in said plurality of
14	virtual circuits, and a second information element is designed to request set up of a second
15	plurality of virtual circuits comprised in said plurality of virtual circuits;
16	an inbound interface designed for receiving on said ATM network an acceptance
17	message indicating that only said single virtual circuit is possible to be provisioned if any of
18	a plurality of switches in a connection path between said first end system and said second end
19	system is designed not to support said plurality of virtual circuits; and
20	a parser designed for examining said acceptance message and forwarding said
21	acceptance message to said call control logic.
22	Claim 25 (Currently Amended): The device of claim 24 141, further comprising a
23	signaling application programming interface (API), said signaling API receiving a request
24	for a group of virtual circuits from an external application, and communicating said request
25	to said call control logic, wherein said call control logic causes said single signaling message
26	to be sent in response to said request.

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27	7 Claim 26 (Previously Presented): The device of claim 25	5, wherein said outbound
28	8 interface sends said single signaling message in the form of a p	olurality of asynchronous
29	9 transfer mode (ATM) cells, said device further comprising:	
30	0 a signaling ATM adaptation layer (SAAL) output block to e	ncapsulate data generated
31	by said message construction block to generate said single signal	ling message, said SAAL
32	2 output block being coupled to said outbound interface.	
33	3 Claim 27 (Canceled)	
34	4 Claim 28 (Currently Amended): The device of claim 24	27, wherein said second
35	5 information element comprises a non-mandatory information	element according to a
36	6 specification, wherein non-mandatory information elements can be	e ignored by said plurality
37	of switches according to said specification.	
38	8 Claim 29 (Previously Presented): The device of claim 28, v	wherein said specification
39	omprises one of user to network interface (UNI) or network to n	etwork interface (NNI).
40	0 Claim 30 (Currently Amended): The device of claim 24 ±	<del>28</del> , further comprising an
41	inbound interface designed for receiving an another acceptance	e message, said <u>another</u>
42	2 acceptance message indicating that a plurality of switches in a con-	nection path between said
43	first ATM switch and said second ATM switch have set up said pl	lurality of virtual circuits.
44	4 Claim 31 (Previously Presented): The device of claim 30,	wherein said plurality of
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46	6 plurality of virtual circuits, wherein said call control logic designed	for causing said message
47	7 construction block to send a second signaling message to activate	at least one of a plurality
48	8 of not-yet-provisioned virtual circuits comprised in said plurality	of virtual circuits.

virtual circuits is treated as a group of virtual circuits, wherein said first ATM switch and said

second ATM switch support a plurality of groups including said group, said device further

Claim 32 (Previously Presented): The device of claim 30, wherein said plurality of

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a range of virtual circuits to be specified, said format further allowing a plurality of traffic

parameters to be specified for all of said range of virtual circuits, wherein said plurality of

Claim 37 (Previously Presented): The device of claim 36, wherein said format allows

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parameters in said single signaling message specify the desired parameters and said plurality of parameters in said acceptance message specify the accepted parameters.

## Claims 38-78: (Canceled)

Claim 79 (Currently Amended): A method of setting up a plurality of virtual circuits between a first asynchronous transfer mode (ATM) switch and a second ATM switch, said plurality of virtual circuits being set up on a ATM network connecting said first ATM switch to said second ATM switch, said method comprising:

sending on said ATM network to said second ATM switch a single signaling message requesting said plurality of virtual circuits to be set up;

receiving an acceptance message, said acceptance message indicating that a plurality of ATM switches in a connection path between said first ATM switch and said second ATM switch have set up said plurality of virtual circuits,

wherein said plurality of ATM switches accept said plurality of virtual circuits but immediately provision fewer than said plurality of virtual circuits; and sending a second signaling message to activate at least one of a plurality of not-yet-

Claim 80 (Currently Amended): The method of claim 79, wherein said acceptance message is received only if each of said plurality of ATM switches is designed to support set up of said plurality of virtual circuits, wherein said single signaling message comprises a plurality of information elements, wherein a first information element is designed to request set up of a single virtual circuit comprised in said plurality of virtual circuits, and a second information element is designed to request set up of a second plurality of virtual circuits comprised in said plurality of virtual circuits, said method further comprising:

provisioned virtual circuits comprised in said plurality of virtual circuits.

receiving an another acceptance message indicating that only said single virtual circuit is possible to be provisioned if any of a plurality of switches in a connection path between said first ATM switch and said second ATM switch is designed not to support set up of said plurality of virtual circuits.

Reply to Office Action of 10/16/2006 Appl. No.: 09/976,004 Attorney Docket No.: CSCO-010/4390 Amendment Dated: January 16, 2007 1 Claim 81 (Previously Presented): The method of claim 80, wherein said second 2 information element comprises a non-mandatory information element according to a specification, wherein non-mandatory information elements can be ignored by said plurality 3 4 of switches according to said specification. 1 Claim 82 (Previously Presented): The method of claim 81, wherein said specification 2 comprises one of user to network interface (UNI) or network to network interface (NNI). Claims 83 - 84 (Canceled) 1 1 Claim 85 (Currently Amended): The method of claim 79 84, wherein said fewer than 2 said plurality of virtual circuits corresponds to one virtual circuit such that only one virtual 3 circuit is provisioned in response to said single signaling message. Claim 86 (Previously Presented): The method of claim 85, wherein said sending is 4 5 performed from one of said first ATM system or said plurality of ATM switches. 6 Claim 87(Currently Amended): The method of claim <u>79</u>-84, wherein said plurality of 7 virtual circuits is treated as a group of virtual circuits, wherein said first ATM switch and said 8 second ATM switch support a plurality of groups including said group, said method further 9 comprising maintaining a bundle structure associated with each of said plurality of groups, 10 wherein said bundle structure stores information identifying the specific plurality of virtual circuits forming the corresponding group. 11 1 Claim 88 (Previously Presented): The method of claim 87, further comprising: 2 maintaining a plurality of call reference structures, wherein each of said plurality of

call reference structures maintains the state of a call, wherein signaling messages related to

information related to a plurality of call parameters accepted for a corresponding one of said

maintaining a plurality of per-VC structures, wherein each per-VC structure stores

each group are received on a corresponding call; and

plurality of virtual circuits.

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Claim 89 (Previously Presented): The method of claim 88, wherein said sending, said receiving and each of said maintaining are performed in a switch contained in said connection path, said method further comprising:

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maintaining a plurality of switch structures, wherein each of said plurality of switch structures stores a mapping of an identifier of each of said virtual circuit in inbound direction to another identifier of the virtual circuit in outbound direction;

mapping each identifier received in inbound direction to a corresponding identifier in outbound direction using said plurality of switch structures.

Claim 90 (Currently Amended): The method of claim 89, wherein said first ATM switch comprises an edge router and wherein said method is performed in said first edge router, wherein said single signaling message contains a bundle identifier which is propagated without translation by each of said plurality of switches.

Claim 91 (Previously Presented): The method of claim 90, wherein each of said plurality of virtual circuits comprises a switched virtual circuit.

Claim 92 (Currently Amended): The method of claim 79 84, wherein said acceptance message and said single signaling message are both formed according to a common format, wherein said common format contains a field which indicates whether a message comprises said acceptance message or said single signaling message.

Claim 93 (Previously Presented): The method of claim 92, wherein said format allows a range of virtual circuits to be specified, said format further allowing a plurality of traffic parameters to be specified for all of said range of virtual circuits, wherein said plurality of parameters in said first signaling message specify the desired parameters and said plurality of parameters in said acceptance message specify the accepted parameters.

Claim 94 (Previously Presented): The method of claim 93, further comprising sending a release message requesting release of another range of virtual circuits.

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Claim 95 (Currently Amended): A method of supporting the setting up of a plurality of virtual circuits between a first ATM switch and a second ATM switch, said plurality of virtual circuits being set up on a ATM network connecting said first ATM switch to said second ATM switch, each of said plurality of virtual circuits terminating at said first ATM switch and said second ATM switch, said method being performed in a device, said method comprising: receiving from said first ATM switch on said ATM network a single signaling request requesting said plurality of virtual circuits to be set up; sending an acceptance message if said plurality of virtual circuits can be set up between said device and said second ATM switch in response to said single signaling request alone; and provisioning fewer than said plurality of virtual circuits to said second ATM switch before performing said sending. Claim 96 (Canceled). Claim 97 (Currently Amended): A method of supporting the setting up of a plurality of virtual circuits between a first ATM switch and a second ATM switch, said plurality of

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Claim 98 (Canceled)

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1	Claim 99 (Currently Amended): The method of claim 95 98, further comprising:
2	receiving a second signaling message requesting activation of at least one of said
3	not-yet-provisioned virtual circuits comprised in said plurality of virtual circuits;
4	completing provisioning of said at least one of said not-yet-provisioned virtual
5	circuits; and
6	sending a completion message indicating said at least one of said not-yet-provisioned
7	virtual circuits have been activated.
1	Claim 100 (Previously Presented): The method of claim 99, wherein said single
2	signaling request contains a plurality of parameters related to a range of virtual circuits
3	comprised in said plurality of virtual circuits, said method further comprising:
4	storing said plurality of parameters associated with said range of virtual circuits; and
5	provisioning said range of virtual circuits using said plurality of parameters,
6	whereby said plurality of parameters are transmitted only once for provisioning said
7	range of virtual circuits.
1	Claim 101 (Previously Presented): The method of claim 100, wherein said single
2	signaling request and said second signaling message are in received in the form of ATM
3	cells.
1	Claim 102 (Previously Presented): The method of claim 101, wherein said device
2	comprises one of said first ATM switch, said second ATM switch, or a switch in the path of
3	said plurality of virtual circuits connecting said first ATM switch to said second ATM switch.
1	Claim 103 (Currently Amended): An apparatus for supporting the setting up of a
2	plurality of virtual circuits between a first ATM switch and a second ATM switch, said
3	plurality of virtual circuits being set up on a ATM network connecting said first ATM switch
4	to said second ATM switch, said plurality of virtual circuits terminating at said first ATM
5	switch and said second ATM switch, said apparatus comprising:
6	an in-bound interface for receiving from said first ATM switch on said ATM network

Amendment Dated: January 16, 2007 Attorney Docket No.: CSCO-010/4390 7 a single signaling request requesting said plurality of virtual circuits to be set up; a call control logic for receiving said single signaling message, said apparatus sending 8 9 an acceptance message if said plurality of virtual circuits can be set up between a device 10 containing said apparatus and said second ATM switch in response to said single signaling 11 request alone, wherein said call control logic is for provisioning fewer than said plurality of virtual 12 circuits to said second ATM switch before sending said acceptance message. 13 Claim 104 (Canceled) 1 1 Claim 105 (Currently Amended): The apparatus of claim 104, An apparatus for supporting the setting up of a plurality of virtual circuits between a first ATM switch and a 2 3 second ATM switch, said plurality of virtual circuits being set up on a ATM network 4 connecting said first ATM switch to said second ATM switch, said plurality of virtual circuits terminating at said first ATM switch and said second ATM switch, said apparatus 5 6 comprising: 7 an in-bound interface for receiving from said first ATM switch on said ATM network 8 a single signaling request requesting said plurality of virtual circuits to be set up; a call control logic for receiving said single signaling message, said apparatus sending 9 an acceptance message if said plurality of virtual circuits can be set up between a device 10 containing said apparatus and said second ATM switch in response to said single signaling 11 12 request alone, wherein said call control logic is for provisioning all of said plurality of virtual 13 14 circuits before sending said acceptance message. Claim 106 (Canceled) 1 1 Claim 107 (Currently Amended): The apparatus of claim 103 106, wherein said 2 inbound interface is designed to receive a second signaling message requesting activation of 3 at least one of not-yet-provisioned virtual circuits comprised in said plurality of virtual circuits, wherein said call control logic is configured to complete provisioning of said at least 4

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one of said not-yet-provisioned virtual circuits and then to send a completion message indicating said at least one of said not-yet-provisioned virtual circuits have been activated.

up of said plurality of virtual circuits.

Claim 108 (Previously Presented): The apparatus of claim 107, wherein said single signaling message contains a plurality of parameters related to a range of virtual circuits comprised in said plurality of virtual circuits, said apparatus further comprising a memory storing said plurality of parameters associated with said range of virtual circuits, wherein said call control logic is for provisioning said range of virtual circuits using said plurality of parameters, whereby said plurality of parameters are transmitted only once for provisioning said range of virtual circuits.

Claim 109 (Previously Presented): The apparatus of claim 108 comprising one of said first ATM switch, said second ATM switch or a switch in the path of said plurality of virtual circuits connecting said first ATM switch to said second ATM switch.

Claim 110 (Currently Amended): A device for setting up a plurality of virtual circuits between a first ATM switch and a second ATM switch, said plurality of virtual circuits being set up on a ATM network connecting said first ATM switch to said second ATM switch, said plurality of virtual circuits terminating at said first ATM switch and said second ATM switch, said device being located in a communication path between said first ATM switch and said second ATM switch, said device comprising:

means for sending on said ATM network to said second ATM switch a single signaling message requesting said plurality of virtual circuits to be set up , wherein said single signaling message comprises a plurality of information elements, wherein a first information element is designed to request set up of a single virtual circuit comprised in said plurality of virtual circuits, and a second information element is designed to request set up of a second plurality of virtual circuits comprised in said plurality of virtual circuits; and means for receiving an acceptance message indicating that only said single virtual circuit is possible to be provisioned if any of a plurality of switches in a connection path between said first ATM switch and said second ATM switch is designed not to support set

## Claim 111 (Canceled)

Claim 112 (Currently Amended): The device of claim 110 111, wherein said second information element comprises a non-mandatory information element according to a specification, wherein non-mandatory information elements can be ignored by said plurality of switches according to said specification.

Claim 113 (Previously Presented): The device of claim 112, wherein said specification comprises one of user to network interface (UNI) or network to network interface (NNI).

Claim 114 (Currently Amended): The device of claim 110 106, each of said plurality of switches in a connection path between said first ATM switch and said second ATM switch is designed to support said plurality of virtual circuits, said device further comprising:

means for receiving an another acceptance message, said another acceptance message indicating that a plurality of switches in a connection path between said first ATM switch and said second ATM switch have set up said plurality of virtual circuits.

Claim 115 (Previously Presented): The device of claim 114, wherein said plurality of switches accept said plurality of virtual circuits but immediately provision fewer than said plurality of virtual circuits, said device further comprising:

means for sending a second signaling message to activate at least one of a plurality of not-yet-provisioned virtual circuits comprised in said plurality of virtual circuits.

Claim 116 (Previously Presented): The device of claim 115, wherein said plurality of virtual circuits is treated as a group of virtual circuits, wherein said first end system and said second end system support a plurality of groups including said group, said device further comprising means for storing a bundle structure associated with each of said plurality of groups, wherein said bundle structure stores information identifying the specific plurality of virtual circuits forming the corresponding group.

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1	Claim 117 (Previously Presented):	The device of claim 116, further comprising:
2	means for storing a plurality of call re	eference structures, wherein each of said plurality
3	of call reference structures maintains the sta	ate of a call, wherein signaling messages related
4	to each group are received on a correspond	ing call; and
5	means for a plurality of per-VC st	ructures, wherein each per-VC structure stores
6	information related to a plurality of call para	ameters accepted for a corresponding one of said
7	plurality of virtual circuits.	
1	Claim 118 (Currently Amended): A	device for supporting the setting up of a plurality
2	of virtual circuits between a first ATM swi	tch and a second ATM switch, said plurality of
3	virtual circuits being set up on a ATM net	work connecting said first ATM switch to said
4	second ATM switch, each of said plurality	of virtual circuits terminating at said first ATM
5	switch and said second ATM switch, said of	levice comprising:
6	means for receiving from said firs	t ATM switch on said ATM network a single
7	signaling request requesting said plurality	of virtual circuits to be set up:
8	means for sending an acceptance m	essage if said plurality of virtual circuits can be
9	set up between said device and said second	ATM switch in response to said single signaling
10	request alone; and	
11	means for provisioning fewer than	said plurality of virtual circuits to said second
12	ATM switch before performing said sendir	<u>1g</u> .
1	Claim 119 (Canceled)	
1	Claim 120 (Currently Amended):	The device of claim 119, wherein said device
2	further comprises A device for supporting	the setting up of a plurality of virtual circuits
3	between a first ATM switch and a second A	ΓM switch, said plurality of virtual circuits being
4	set up on a ATM network connecting said fin	est ATM switch to said second ATM switch, each
5	of said plurality of virtual circuits terminating	ng at said first ATM switch and said second ATM
6	switch, said device comprising:	
7	means for receiving from said firs	t ATM switch on said ATM network a single
8	signaling request requesting said plurality	of virtual circuits to be set up;

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9	means for sending an acceptance message if said	plurality of virtual circuits can be
10	set up between said device and said second ATM switch i	n response to said single signaling
11	request alone; and	
12	means for provisioning all of said plurality of v	irtual circuits before sending said
13	acceptance message.	
1	Claim 121 (Canceled)	
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5	said plurality of virtual circuits terminating at said first A	ATM switch and said second ATM
6	switch, said device being located in a communication par	th located between said first ATM
7	switch and said second ATM switch, wherein execution	of said one or more sequences of
8	instructions by one or more processors contained in sai	d device causes said one or more
9	processors to perform the action actions of:	
10	sending on said ATM network to said second ATM	I switch a single signaling message
11	requesting said plurality of virtual circuits to be set up;	
12	receiving an acceptance message, said acceptance	message indicating that a plurality
13	of switches in a connection path between said first ATM so	witch and said second ATM switch
14	have set up said plurality of virtual circuits,	
15	wherein said plurality of switches accept said	plurality of virtual circuits but
16	immediately provision fewer than said plurality of virtua	l circuits; and
17	sending a second signaling message to activate at	least one of a plurality of not-yet-
1	provisioned virtual circuits comprised in said plurality of	f virtual circuits.
1	Claim 123 (Currently Amended): The computer	r readable medium of claim 122
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5	is designed to support set up of said planafity of virtual eff	zaros, wherein said single signaling

message comprises a plurality of information elements, wherein a first information element

Claim 129 (Previously Presented): The computer readable medium of claim 128, further comprising:

plurality of virtual circuits forming the corresponding group.

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maintaining a plurality of call reference structures, wherein each of said plurality of call reference structures maintains the state of a call, wherein signaling messages related to each group are received on a corresponding call; and

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6	maintaining a plurality of per-VC structures, wherein each per-VC structure stores
7	information related to a plurality of call parameters accepted for a corresponding one of said
8	plurality of virtual circuits.
1	Claim 130 (Previously Presented): The computer readable medium of claim 129,
2	wherein said sending, said receiving and each of said maintaining are performed in a switch
3	contained in said connection path, further comprising:
4	maintaining a plurality of switch structures, wherein each of said plurality of switch
5	structures stores a mapping of an identifier of each of said virtual circuit in inbound direction
6	to another identifier of the virtual circuit in outbound direction;
7	mapping each identifier received in inbound direction to a corresponding identifier
8	in outbound direction using said plurality of switch structures.
1	Claim 131 (Previously Presented): The computer readable medium of claim 129,
2	wherein said first end system comprises an edge router and wherein said actions are
3	performed in said first edge router, wherein said first signaling message contains a bundle
4	identifier which is propagated without translation by each of said plurality of switches.
1	Claim 132 (Currently Amended): The computer readable medium of claim <del>125</del> 122,
2	wherein said acceptance message and said first signaling message are both formed according
3	to a common format, wherein said common format contains a field which indicates whether
4	a message comprises said acceptance message or said first signaling message.
1	Claim 133 (Previously Presented): The computer readable medium of claim 132,
2	wherein said format allows a range of virtual circuits to be specified, said format further
3	allowing a plurality of traffic parameters to be specified for all of said range of virtual
4	circuits, wherein said plurality of parameters in said first signaling message specify the
5	desired parameters and said plurality of parameters in said acceptance message specify the
6	accepted parameters.

Claim 134 (Previously Presented): The computer readable medium of claim 133,

2 further comprising sending a release message requesting release of another range of virtual

3 circuits.

Claim 135 (Currently Amended): A computer readable medium carrying one or more sequences of instructions for causing a device to support the setting up of a plurality of virtual circuits between a first ATM switch and a second ATM switch, said plurality of virtual circuits being set up on a ATM network connecting said first ATM switch to said second ATM switch, each of said plurality of virtual circuits terminating at said first ATM switch and said second ATM switch, wherein execution of said one or more sequences of instructions by one or more processors contained in said device causes said one or more processors to perform the action of:

receiving from said first ATM switch on said ATM network a single signaling request requesting said plurality of virtual circuits to be set up:

sending an acceptance message if said plurality of virtual circuits can be set up between said device and said second ATM switch in response to said single signaling request alone; and

provisioning fewer than said plurality of virtual circuits to said second end system

Claim 136 (Canceled)

before performing said sending.

Claim 137 (Currently Amended): A computer readable medium carrying one or more sequences of instructions for causing a device to support the setting up of a plurality of virtual circuits between a first ATM switch and a second ATM switch, said plurality of virtual circuits being set up on a ATM network connecting said first ATM switch to said second ATM switch, each of said plurality of virtual circuits terminating at said first ATM switch and said second ATM switch, wherein execution of said one or more sequences of instructions by one or more processors contained in said device causes said one or more processors to perform the action of:

The computer readable medium of claim 136, further comprising:

receiving from said first ATM switch on said ATM network a single signaling request

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11	requesting said plurality of virtual circuits to be set up;		
12	sending an acceptance message if said plurality of virtual circuits can be set up		
13	between said device and said second ATM switch in response to said single signaling request		
14	alone:		
15	provisioning all of said plurality of virtual circuits before said sending.		
1	Claim 138 (Canceled)		
1	Claim 139 (Currently Amended): The computer readable medium of claim 135 138,		
2	further comprising:		
3	receiving a second signaling message requesting activation of at least one of said not-		
4	yet-provisioned virtual circuits comprised in said plurality of virtual circuits;		
5	completing provisioning of said at least one of said not-yet-provisioned virtual		
6	circuits; and		
7	sending a completion message indicating said at least one of said not-yet-provisioned		
8	virtual circuits have been activated.		
1	Claim 140 (Previously Presented): The computer readable medium of claim 139,		
2	wherein said first signaling message contains a plurality of parameters related to a range of		
3	virtual circuits comprised in said plurality of virtual circuits, further comprising:		
4	storing said plurality of parameters associated with said range of virtual circuits; and		
5	provisioning said range of virtual circuits using said plurality of parameters,		
6	whereby said plurality of parameters are transmitted only once for provisioning said		
7	range of virtual circuits.		

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Claim 141 (Canceled)